



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)

BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION
11805 S.W. 26th Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590, F (786) 315-2599

www.miamidade.gov/pera/

Kawneer Company, Inc.

555 Guthridge Court

Norcross, GA 30092

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "8430 TL" Aluminum Single Hung Window - S.M.I.

APPROVAL DOCUMENT: Drawing No. 1410, titled "8430TL Single Hung Window (Small Missile Impact)", dated 03/07/2005 with revision "B1" dated 11/03/2011, sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and Expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series and following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 10-0406.06 and consists of this page 1, evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
11/9/11

NOA No. 11-1013.08
Expiration Date: August 4, 2015
Approval Date: November 17, 2011
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under previous NOA No. 05-0609.02)
2. Drawing No. **1410**, titled "8430TL Single Hung Window (Small Missile Impact)", dated 03/07/2005 with revision "**B1**" dated 11/03/2011, sheets 1 through 4 of 4, prepared by W. W. Schaefer Engineering & Consulting, P. A., signed and sealed by Warren W. Schaefer, P. E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of aluminum single hung windows, prepared by Hurricane Test Laboratory, LLC, Test Reports No.'s **HTL-G049-1202-04** and **HTL-G049-0503-05**, dated 12/08/2004 and 05/13/2005, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No. 05-0609.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 03/31/2010, signed and sealed by Warren W. Schaefer, P. E.
(Submitted under previous NOA No. 10-0406.06)
2. **Complies with ASTM E1300-04**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/2011, expiring on 12/11/2016.
2. Notice of Acceptance No. **11-0325.05** issued to Solutia Inc. for their "**Saflex and Vanceva clear and color interlayers**" dated 05/05/11, expiring on 05/21/16.



Jaime D. Gascon, P. E.
Product Control Section Supervisor
NOA No. 11-1013.08
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F. STATEMENTS

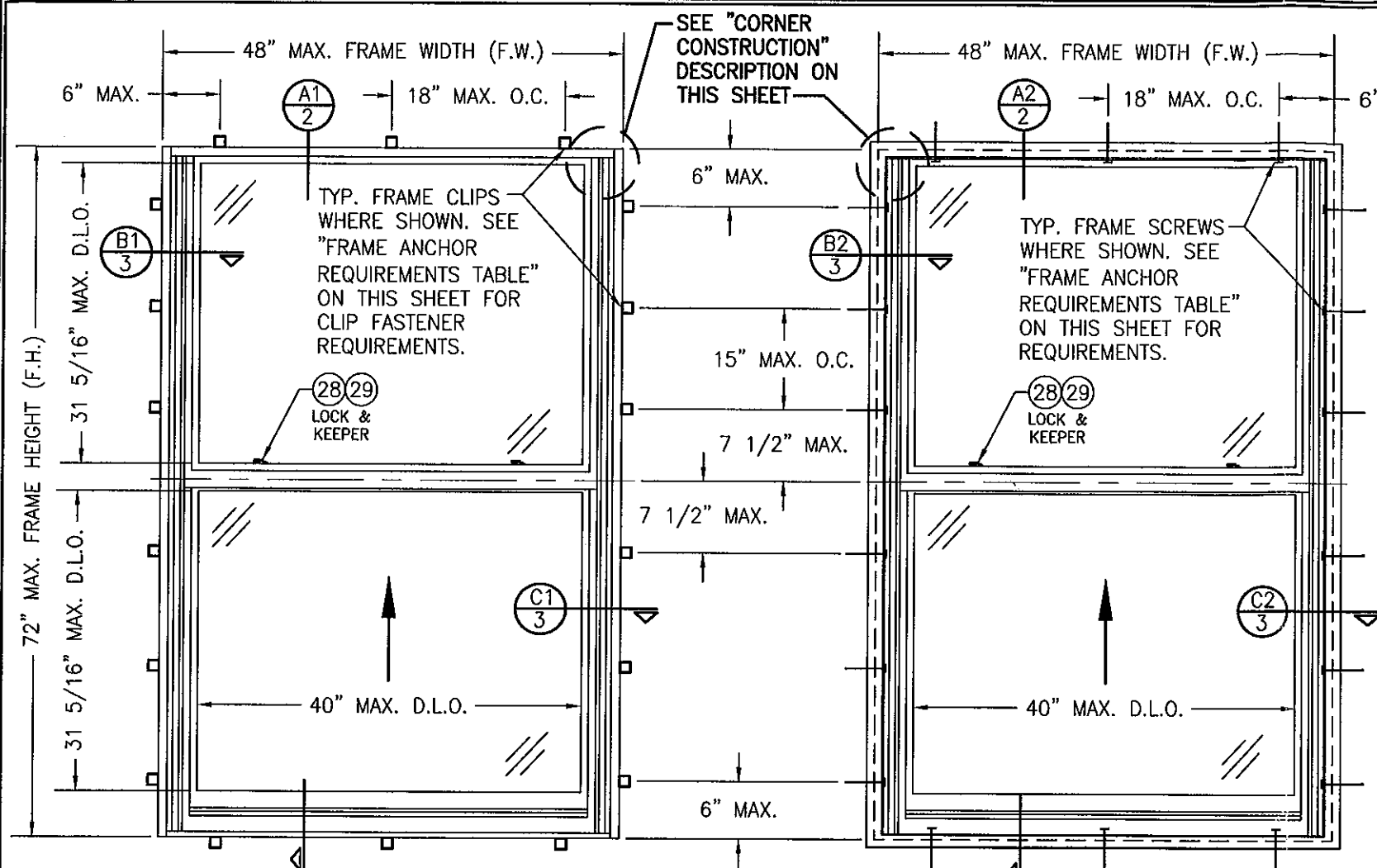
1. Statement letter of conformance and compliances with the FBC-2007 and FBC-2010, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated October 6, 2011, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of no financial interest and independency, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated October 6, 2011, signed and sealed by Warren W. Schaefer, P. E.
3. Laboratory compliance letter for Test Reports No.'s **HTL-G049-1202-04** and **HTL-G049-0503-05**, issued by Hurricane Test Laboratory, LLC, dated December 08, 2004 and May 13, 2005, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No.05-0609.02)

G. OTHERS

1. Notice of Acceptance No. **10-0406.06**, issued to Kawneer Company, Inc. for their Series "**8430 TL Aluminum Single Hung Window – S.M.I.**", approved on 05/12/2010 and expiring on 08/04/2015.

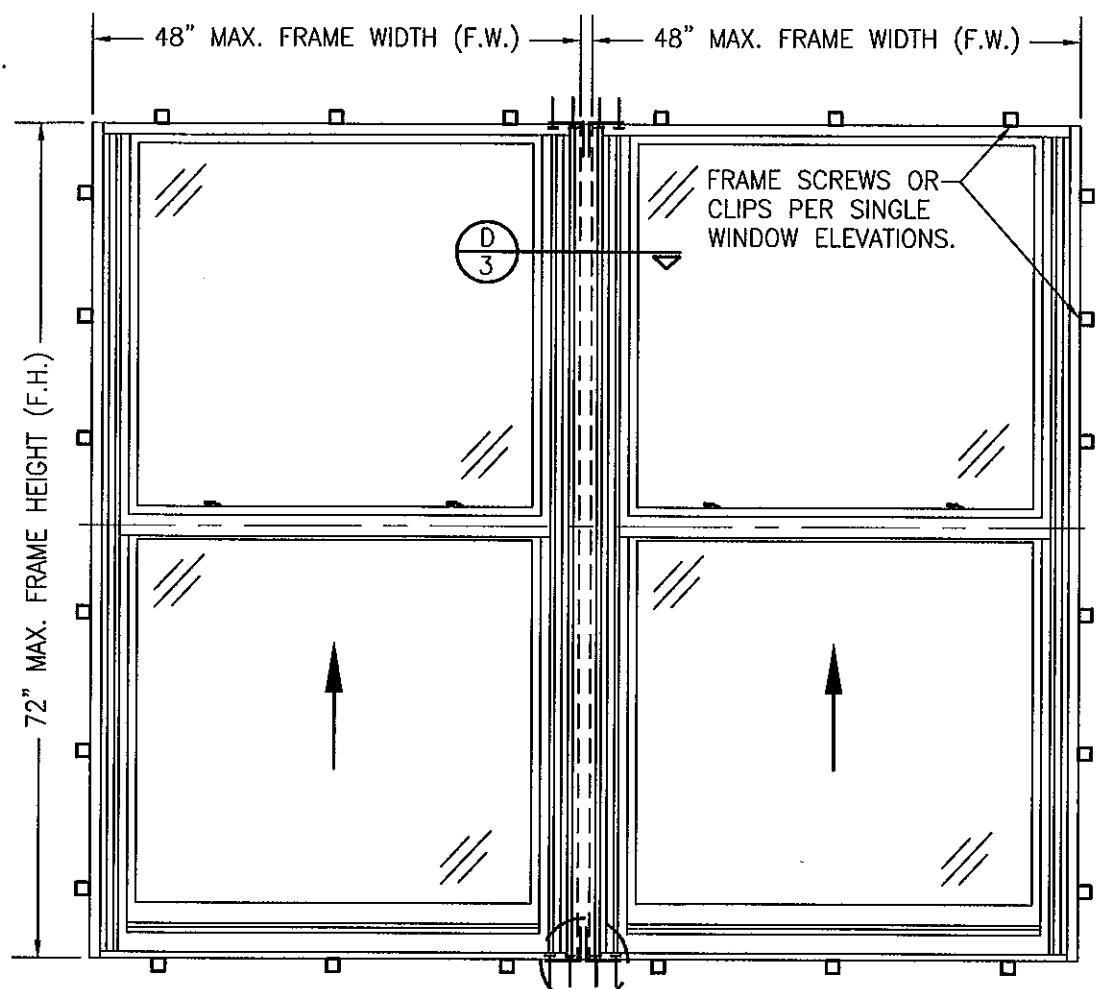


Jaime D. Gascon, P. E.
Product Control Section Supervisor
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EXTERIOR ELEVATION: SINGLE WINDOW
(CLIP MOUNT CONDITION)
SCALE: 3/4"=1'-0"

EXTERIOR ELEVATION: SINGLE WINDOW
(FRAME SCREW MOUNT CONDITION)
SCALE: 3/4"=1'-0"



EXTERIOR ELEVATION
MULTIPLE WINDOWS
SCALE: 3/4"=1'-0"

CORNER CONSTRUCTION

JAMB CORNERS:
COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.

SASH CORNERS:
COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.

LOCK REQUIREMENTS	
MAX. FRAME WIDTH	NO. OF LOCKS REQUIRED
48"	2
24"	1

ALLOWABLE DESIGN PRESSURE
+/-90 PSF
SMALL MISSILE IMPACT

FRAME ANCHOR REQUIREMENTS TABLE			
FRAME & CLIP SCREWS			
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 1B GA. 33 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.10" THK 6063-T5 ALUM.	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).			

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 11-1013.08
Expiration Date 08/04/2015
By [Signature]
Miami Dade Product Control



GENERAL NOTES:

- THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
- OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
- ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
- THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR SMALL MISSILE IMPACT WINDOWS.
- THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
- WHEN GLAZED FOR SMALL MISSILE IMPACT, THESE WINDOWS MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.
- ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
- DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
- MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 03/07/05	
DATE	BY	REVISION DESCRIPTION	NO.
03/31/10	W.W.S.	UPDATE TO CURRENT STANDARDS	A1
11/03/11	W.W.S.	UPDATE CONSULTANTS ADDRESS	B1

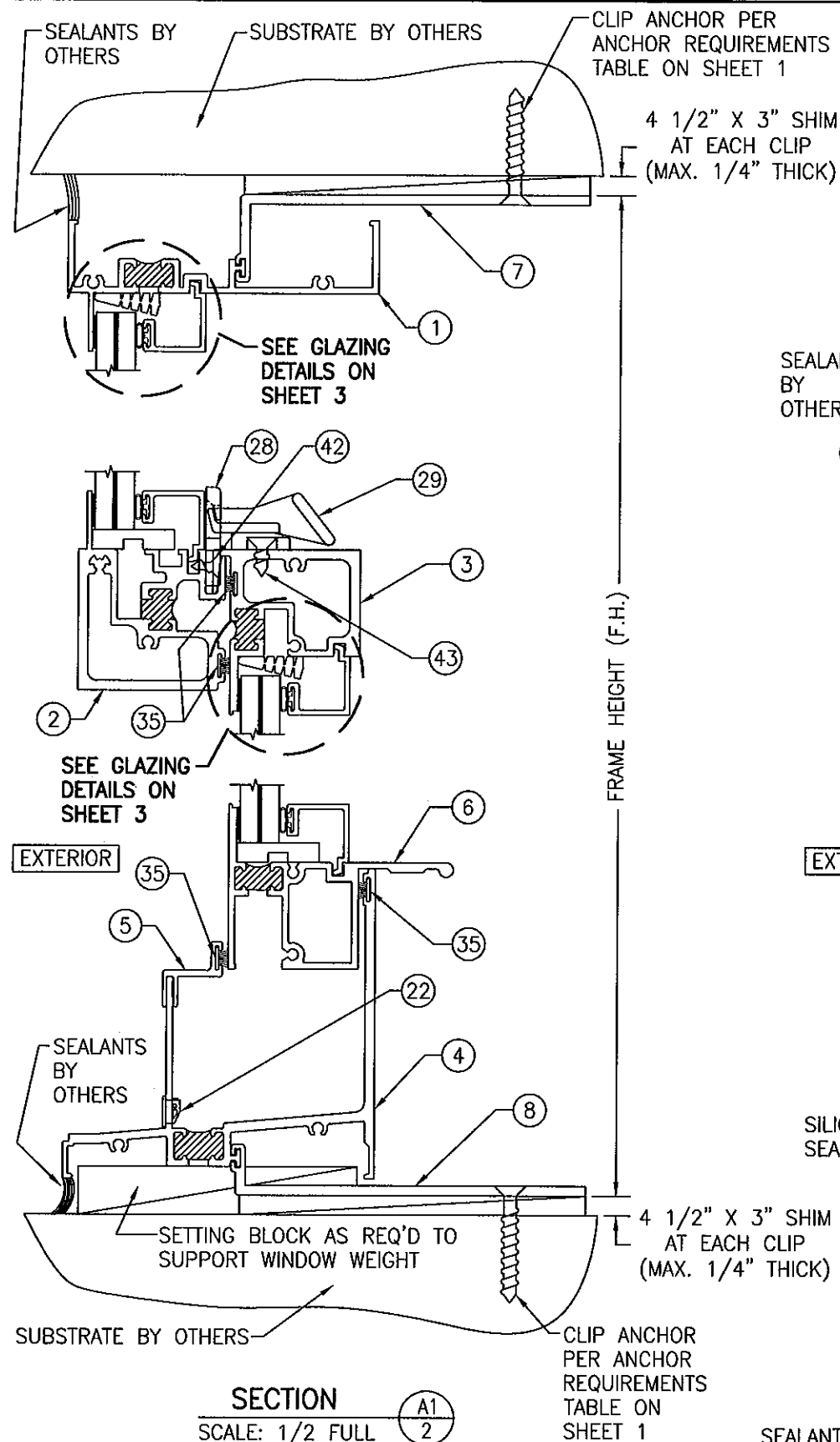
DRAWING TITLE: 8430TL SINGLE HUNG WINDOW (SMALL MISSILE IMPACT)

MANUFACTURER: KAWNEER COMPANY, INC.
555 GUTHRIE COURT
NORCROSS, GA 30092
770-449-5555

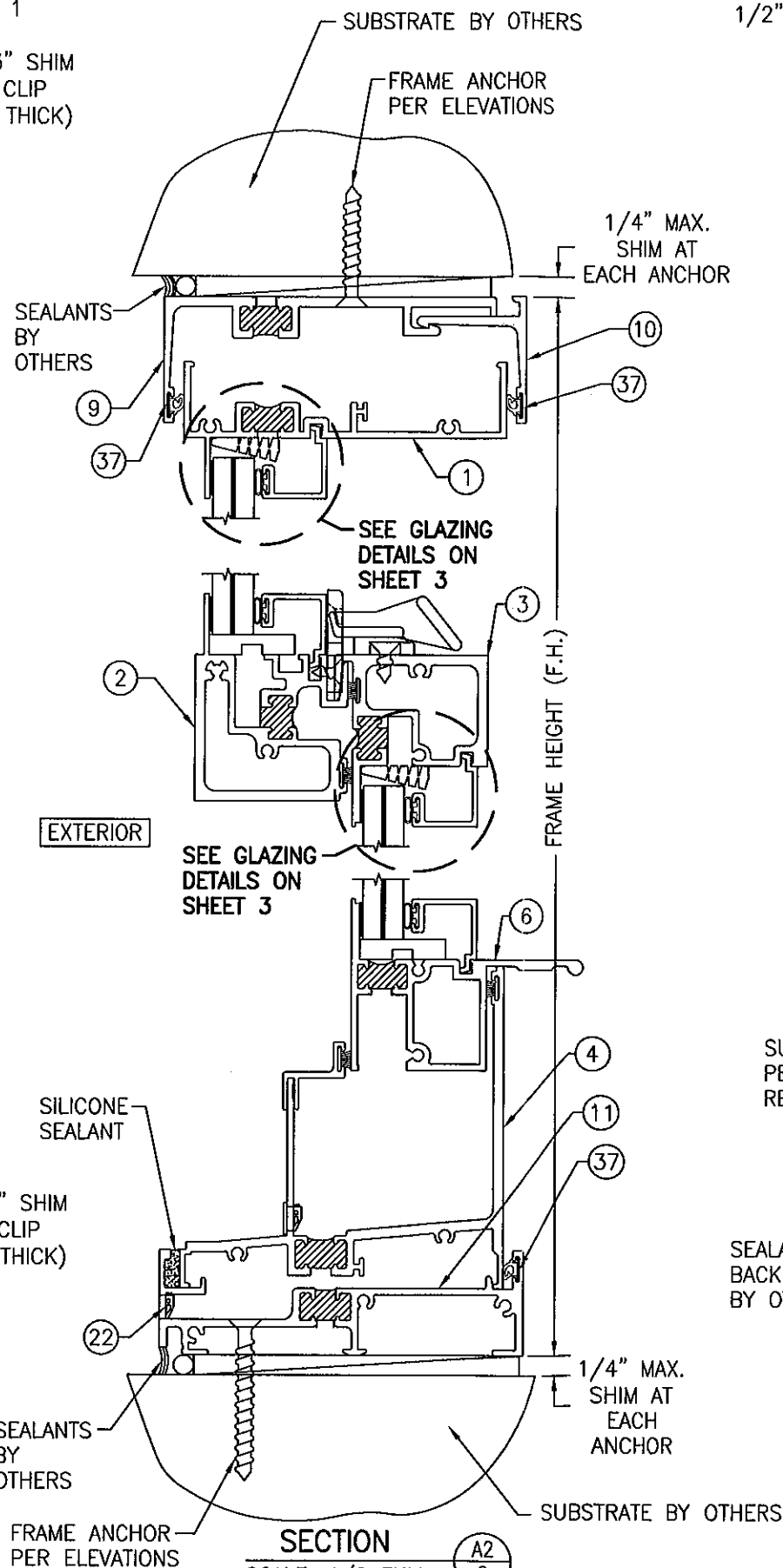
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION: NOV 03 2011
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

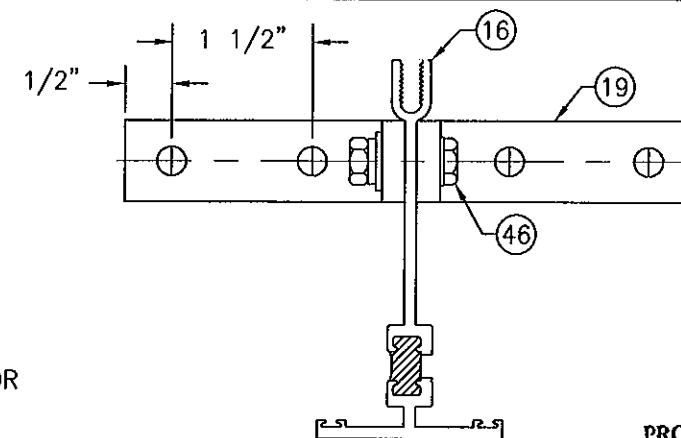
DRAWING NO. 1410
SHEET NO. 1 OF 4



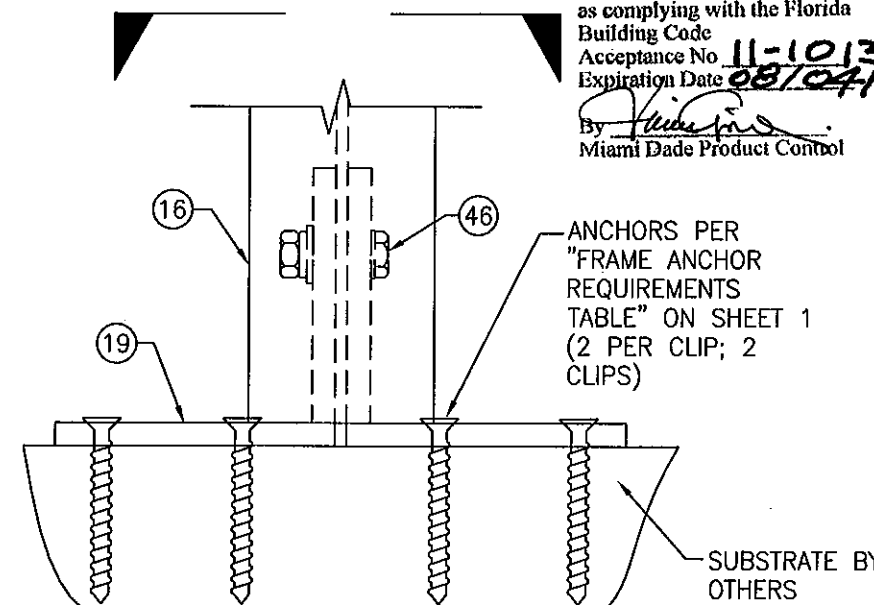
SECTION A1
SCALE: 1/2 FULL



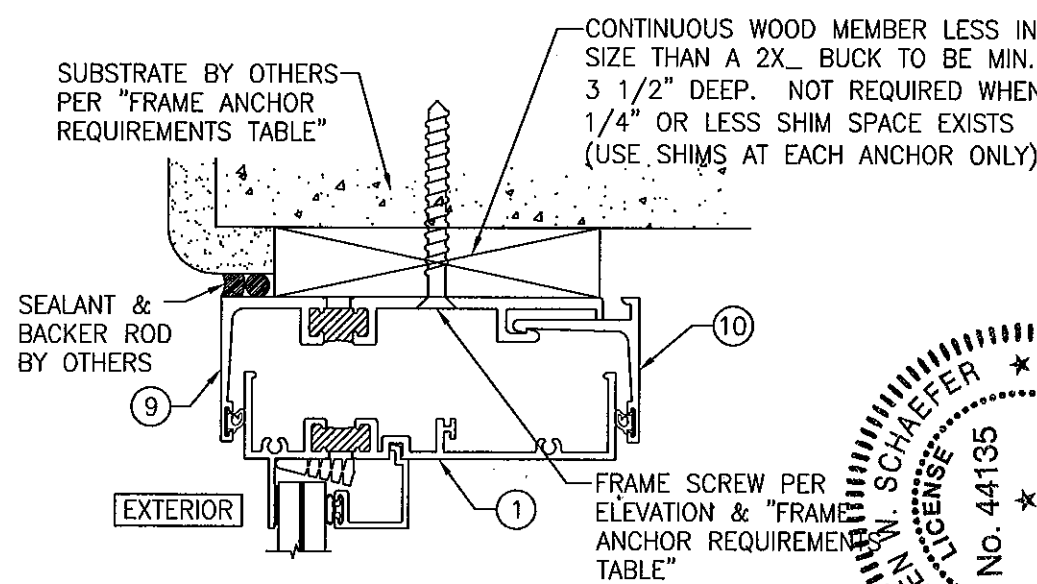
SECTION A2
SCALE: 1/2 FULL
FOR DETAIL NOT SHOWN, SEE SECTION A1



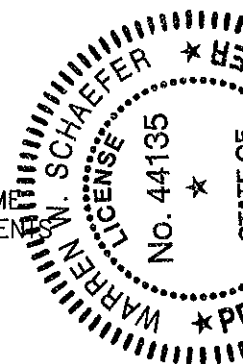
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1013.08
Expiration Date 08/04/2015
By *[Signature]*
Miami Dade Product Control



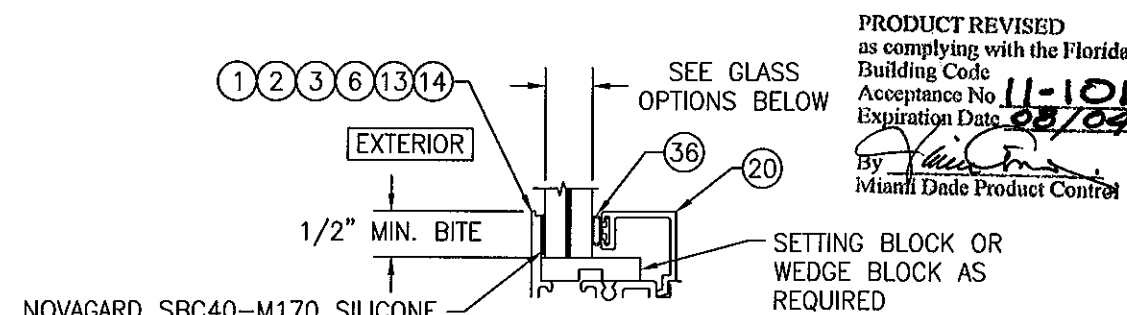
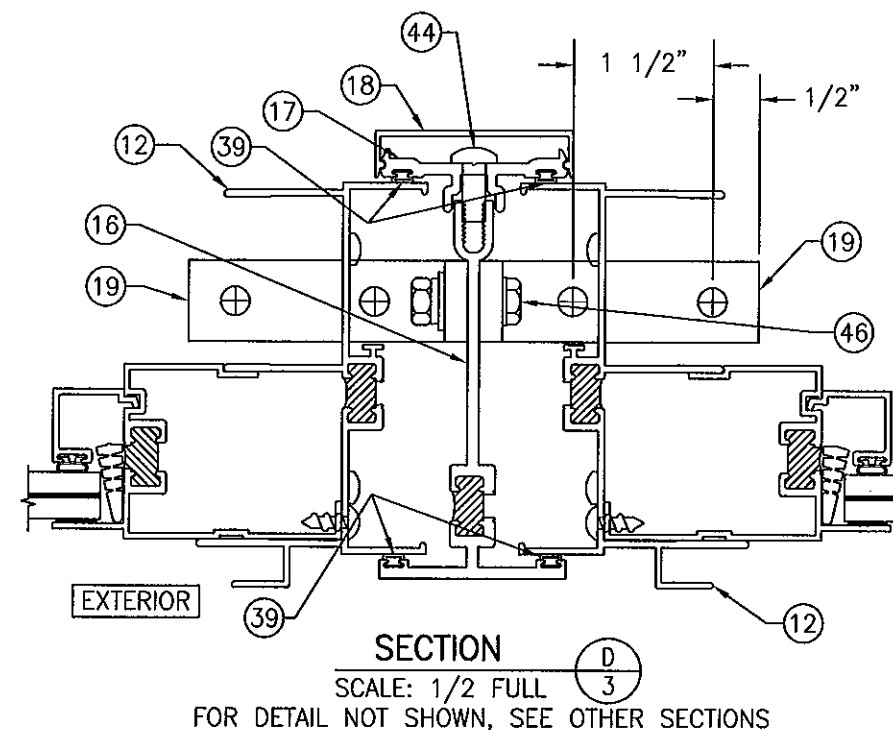
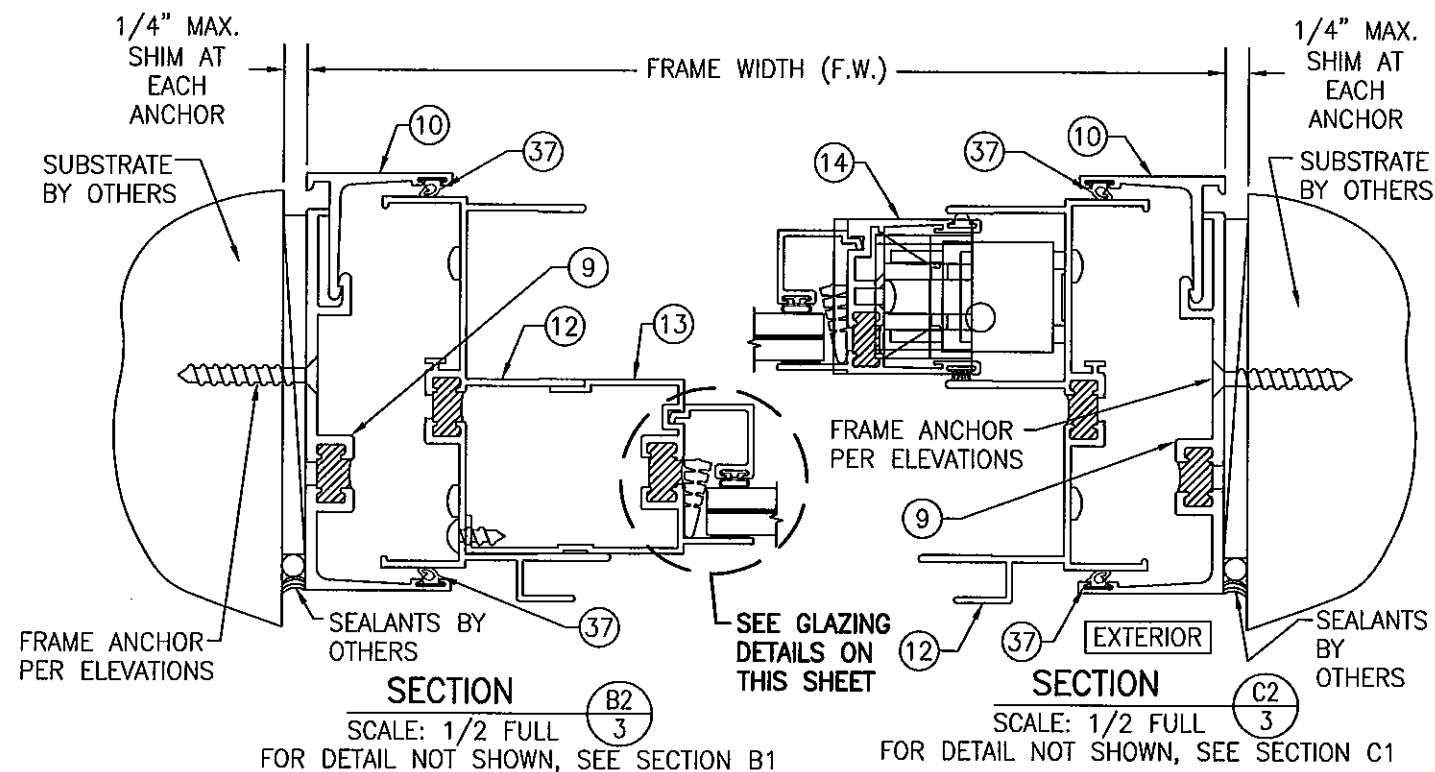
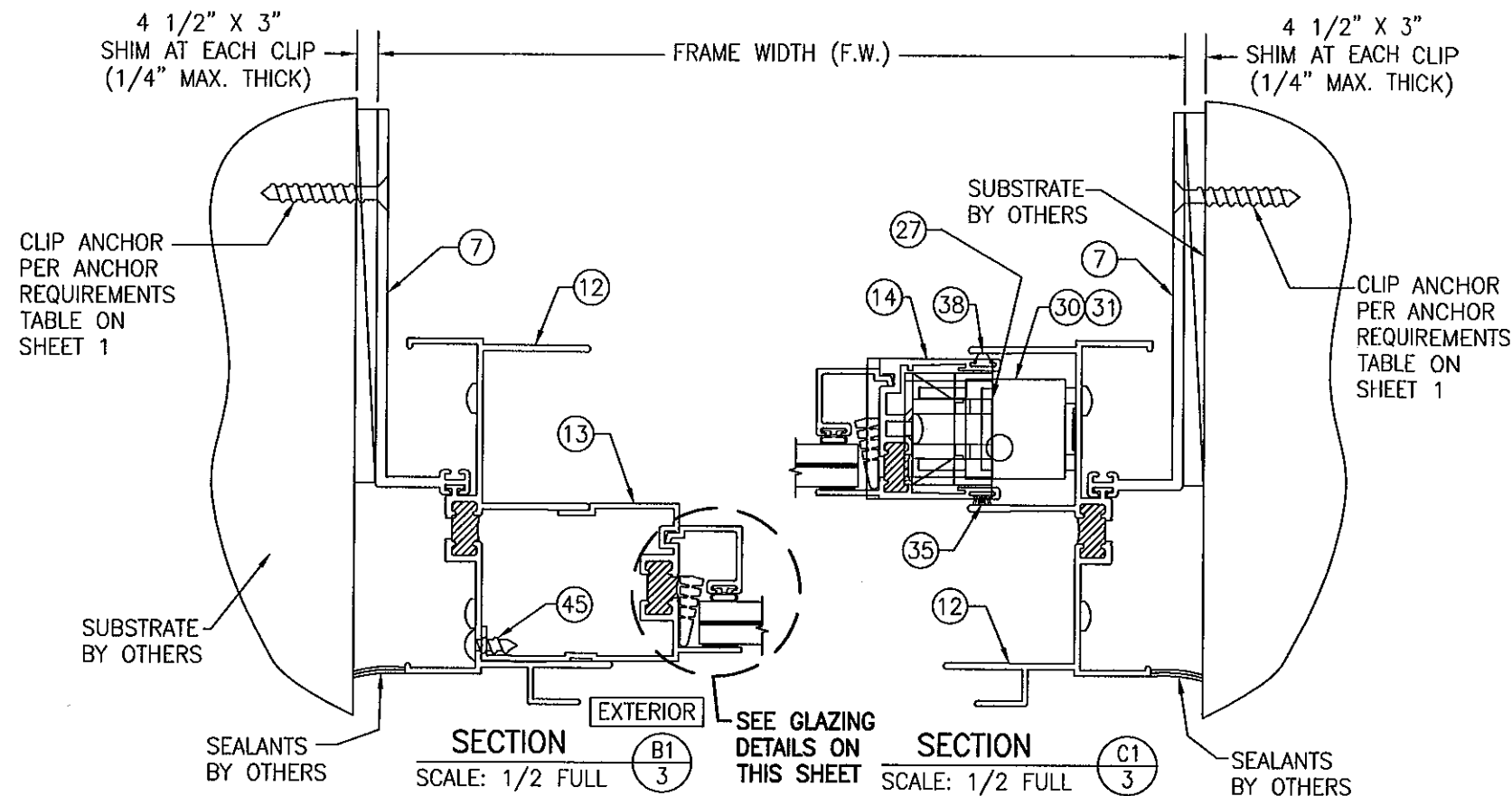
MULLION END DETAIL
NOT TO SCALE
(WINDOW FRAMES NOT SHOWN FOR CLARITY)



OPTIONAL DIRECT MOUNT DETAIL
FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS
(HEAD SECTION SHOWN, SIDES AND SILL SIMILAR)



DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 03/07/05
NO.	DATE
BY	REVISION
DESCRIPTION	DATE
8430TL SINGLE HUNG WINDOW (SMALL MISSILE IMPACT)	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
WARREN W. SCHAEFER P.E. NO. 44135 NOV 03 2011	
DRAWING NO. 1410	REV. B
SHEET NO. 2 OF 4	

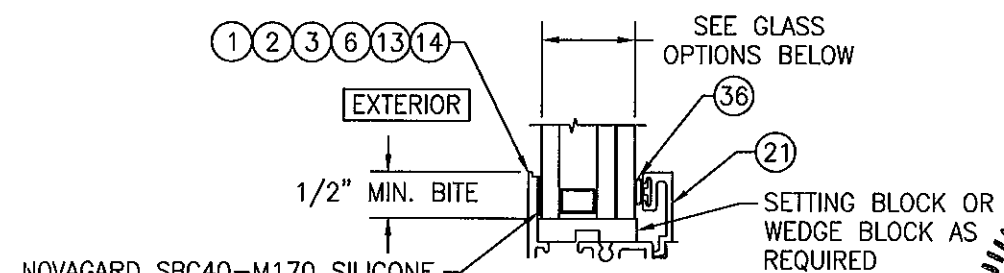


NON-IG GLAZING DETAIL

SCALE: 1/2 FULL

GLASS OPTION 1: 9/16" LAMINATED HEAT STRENGTHENED DUPONT BUTACITE PVB GLASS (1/4" HT. ST./0.06 PVB/1/4" HT. ST.)

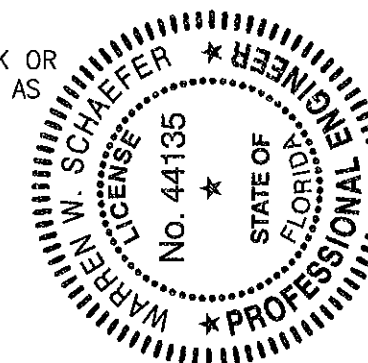
GLASS OPTION 2: 9/16" LAMINATED HEAT STRENGTHENED SOLUTIA SAFLEX PVB GLASS (1/4" HT. ST./0.06 PVB/1/4" HT. ST.)



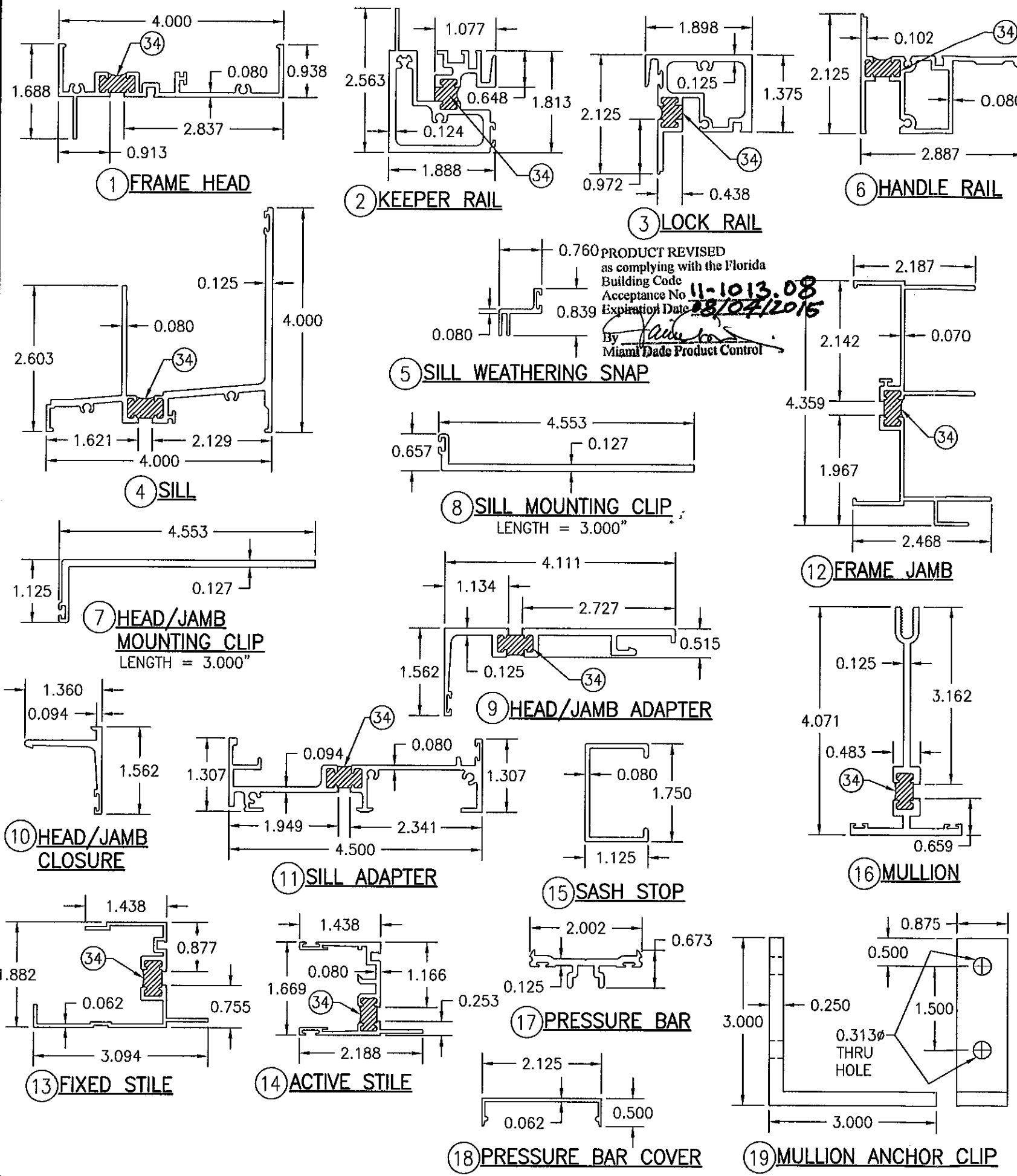
IG GLAZING DETAIL

SCALE: 1/2 FULL

GLASS OPTION 3: 1" I.G. WITH 3/16" TEMPERED OUTBOARD & 7/16" LAMINATED HEAT STRENGTHENED SOLUTIA SAFLEX PVB GLASS INBOARD (3/16" HT. ST./0.03 PVB/3/16" HT. ST.)

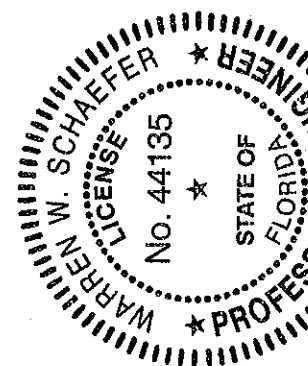


DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 03/07/05
NO.	DATE
REVISION DESCRIPTION	BY
8430TL SINGLE HUNG WINDOW (SMALL MISSILE IMPACT)	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	KAWNEER COMPANY, INC.
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418	555 GUTHRIE COURT, NORCROSS, GA 30092
PHONE: 561-744-3424	770-449-5555
CERTIFICATION	NOV 03 2011
WARREN W. SCHAEFER, P.E.	WARREN W. SCHAEFER, P.E.
DRAWING NO. 1410	REV. B
SHEET NO. 3	OF 4



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1013.08
Expiration Date 12/04/2015
By *[Signature]*
Miami Dade Product Control

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	966-294	FRAME HEAD	6063-T6 ALUMINUM
2	986-966	KEEPER RAIL	6063-T6 ALUMINUM
3	986-974	LOCK RAIL	6063-T6 ALUMINUM
4	245-207	SILL	6063-T6 ALUMINUM
5	245-005	SILL WEATHERING SNAP	6063-T6 ALUMINUM
6	245-389	HANDLE RAIL	6063-T6 ALUMINUM
7	245-458	HEAD/JAMB MOUNTING CLIP	6063-T6 ALUMINUM
8	245-459	SILL MOUNTING CLIP	6063-T6 ALUMINUM
9	966-231	HEAD/JAMB ADAPTER	6063-T6 ALUMINUM
10	966-232	HEAD/JAMB CLOSURE	6063-T6 ALUMINUM
11	245-201	SILL ADAPTER	6063-T6 ALUMINUM
12	245-239	FRAME JAMB	6063-T6 ALUMINUM
13	966-296	FIXED STILE	6063-T6 ALUMINUM
14	966-298	ACTIVE STILE	6063-T6 ALUMINUM
15	245-407	SASH STOP	6063-T6 ALUMINUM
16	245-287	MULLION	6063-T6 ALUMINUM
17	245-490	PRESSURE BAR	6063-T6 ALUMINUM
18	243-088	PRESSURE BAR COVER	6063-T6 ALUMINUM
19	245-428	MULLION ANCHOR CLIP	6063-T6 ALUMINUM
20	245-195	NON-IG GLAZING BEAD	6063-T6 ALUMINUM
21	245-194	IG GLAZING BEAD	6063-T6 ALUMINUM
22	245-521	WEEP COVER	PVC
HARDWARE			
27	245-421	SASH CAM	KAWNEER - GLASS FILLED NYLON
28	245-400	LOCK KEEPER	KAWNEER - WHITE BRONZE
29	245-460	SWEEP LOCK	KAWNEER - WHITE BRONZE
30	245-505	BALANCE	KAWNEER SERIES 401
31	245-515	BALANCE CLIP	KAWNEER - ZINC PLATED STEEL
SEALS AND SEALANTS			
34	-	DEBRIDGING	2-PART POLYURETHANE
35	127-080	PILE WEATHERSTRIP	POLYPROPYLENE
36	127-077	BULB WEATHERSTRIP	TPE/POLYPROPYLENE
37	027-915	GASKET	SANTOPRENE/POLYPROPYLENE
38	127-076	VINYL SPACER	RIGID PVC
39	027-874	BULB WEATHERSTRIP	VISTA PLEX/POLYPROPYLENE
MISC. FASTENERS			
42	-	NO. 6 X 3/8" S.S. SCREW	2 PER LOCK KEEPER
43	-	NO. 10 X 1/2" S.S. SCREW	2 PER SWEEP LOCK
44	-	1/4-20 X S.S. SCREW	3" FROM ENDS & 3" O.C.
45	-	NO. 8 X 1/2" S.S. SCREW	2 EACH SIDE OF FIXED STILE
46	-	1/4-20 X 1" S.S. BOLT WITH NUT, FLAT WASHER & SPLIT WASHER	1 PER MULLION ANCHOR



DRAWING TITLE 8430TL SINGLE HUNG WINDOW (SMALL MISSILE IMPACT)

DRAWN BY: K.P.S. **CHECKED BY:** W.W.S.
PLOT: 1=2 **DATE:** 03/07/05

MANUFACTURER KAWNEER COMPANY, INC.
555 GUTHRIE COURT
NORCROSS, GA 30092
770-449-5555

CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

DATE NOV 03 2011
BY WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1410 **REV.** B
SHEET NO. 4 OF 4